

# **2005 International Triticeae Mapping Initiative Summer Workshop**

## **May 29-31, 2005**

**Venue:** Scenic Bozeman Montana  
108 Ag Biosciences Bldg., Montana State University  
Telephone: (406) 994 5055, Fax: (406) 994 7600

### **Directions:**

If you fly into Bozeman and have contacted the organizers with your itinerary, we will meet you at the airport. If you drive, Bozeman is a pretty small town and it's difficult to get lost. The Ag Biosciences Building is attached to the North side of our greenhouse complex on 11<sup>th</sup> Street.

### **Room Reservations:**

Several blocks of rooms have been reserved in nearby motels. Please contact Tom Blake for details.

### **Special Services:**

The faculty and students of the Plant Sciences and Plant Pathology Department look forward to your visit to scenic Bozeman, Montana. Bozeman is 80 miles North of Yellowstone park, lying on the edge of the Rocky Mountains. Excellent hiking, fishing and rafting should be available on this weekend. If we can help make your visit memorable by arranging camping gear or showing you some of our favorite walks or fishing holes, just let us know. Please feel free to contact [blake@montana.edu](mailto:blake@montana.edu) to discuss your Montana visit.

### **Registration:**

Registration for the workshop is \$150.00., Please make payments to Montana State University. Please submit the attached registration form with your payment.

**Contacts:** Tom Blake ([blake@montana.edu](mailto:blake@montana.edu)); Hope Talbert ([hope@montana.edu](mailto:hope@montana.edu))

*The organizing committee for this Workshop would like to thank the following sponsors for their support:*

- International Triticeae Mapping Initiative
- USDA-CSREES
- The American Malting Barley Association
- Anheuser-Busch Company
- Miller Brewing Company
- Sierra Nevada Brewing Company
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## 2005 ITMI SUMMER WORKSHOP PROGRAM

### ---Sunday, MAY 29---

\*\*Dinner on your own before reception\*\*

7:00-10:00 pm: Reception, Greenhouse lobby

### ---Monday, MAY 30 ---

8:00-9:00 am: Rolls, coffee, fruit and juice

#### **Session 1: Bioinformatics and Data Management**

9:15 – 9:30 Dave Matthews, "Triticeae bioinformatics overview and prospects"

9:30 – 10:00 Mark Sorrells and Flavio Breseghello, "Linkage disequilibrium and association analysis: Issues and opportunities for the Triticeae"

10:00 – 10:30 Robin Buell, "TIGR information resources for the Triticeae"

10:30 – 11:00 Roger Wise, "BarleyBase/WheatPLEX: The Triticeae hub of PLEXdb plant expression database"

11:00 – 11:30 Rudi Appels, "CMap integration of wheat and barley maps and QTLs"

11:30 – 12:00 Dave Matthews, "GrainGenes information resources"

12:00-1:00 pm: Lunch

#### **Session 2: Genotyping and Marker Assisted Selection**

1:00 - 1:15 Mark Sorrells "Wheat and barley markers and core sets for genotyping - an overview"

1:15 - 1:45 Curt McCartney "Development and Application of a Core Set of Wheat SSRs"

1:45 - 2:15 Pierre Sourdille "Development of microsatellite markers for wheat genetic mapping improvement: outcomes from the wheat Genoplante program"

2:15 - 2:35 Break

2:35 - 3:05 Luther Talbert "Marker-assisted selection for wheat stem sawfly resistance"

3:05 - 3:35 Jan Svensson "Barley eSNPs and SFPs for high throughput mapping."

3:35 - 4:00 Discussion and coordination

From end of session till 7, social hour and poster session, greenhouse lobby

## **---Tuesday, MAY 31---**

8:00-9:00 am: Rolls, coffee, fruit and juice

Session 3: Functional Genomics and Gene Expression

9:00 - 9:15 Roger Wise – Overview

9:20 - 9:40 Peter Langridge - Wheat development 55,000 genes at a time

9:45 - 10:05 Oscar Riera-Lizarazu, - DEALING in the wheat genome

10:10 - 10:25 Short talk selected from poster abstracts

10:30 - 10:45 Break

10:50 - 11:10 Gary Muehlbauer - Parallel expression profiling in barley (topic coming soon)

11:15 - 11:35 Steve Scofield - Virus induced gene silencing (VIGS) in the Triticeae

11:40 - 11:55 Short talk selected from poster abstracts

12:00-1:00 pm – Lunch

### **Session 4: Physical Maps and Genome Sequencing (Bikram Gill and Rudi Appels organizing)**

1:00 pm Bikram Gill -Introduction

1:10 pm Tim Close- Progress report on Morex barley physical mapping.

1:30 pm Jan Dvorak - Wheat physical mapping

1:50 pm Nils Stein - Barley sequencing update

2:10 pm B. Chalhoub - Wheat sequencing update

2:30 pm C. Feuillet - Chromosome 3B physical map update

2:50 pm Y. Ogihara - Full-length cDNA sequencing update

3:10 pm Open discussion

3:30 pm Coffee break

4:00–6:00 pm IWGSC business meeting (R. Appels, presiding)

- Discussion of the Mission Statement
- Updates from N. America, Europe, Asia, and Australia

6:00-11:00 pm – Social hour, pitchfork barbeque and bluegrass music at the A.H. Post Farm

### **Oral Presentation Guidelines:**

Invited speakers are asked to present their presentations as Microsoft Powerpoint presentations. Speakers are asked to bring their presentations on CDs.

### **Posters:**

There will be a poster session during the meeting. Posters are encouraged; however registered workshop participants will be limited to presenting one poster at the meeting.

### **Workshop Abstracts:**

Abstracts are requested for all invited talks and poster presentations. All abstracts will be compiled into a booklet that will be distributed at the workshop. The deadline for abstract submission is April 25, 2004. Submit abstracts by email to Tom Blake (blake@montana.edu) in either a MS Word or RTF format. Please adhere to the following formatting guidelines when preparing abstracts:

Use US letter (8.5 x 11 inch) paper, single-spaced, single column, with 1 inch (2.54 cm) margins (top/bottom and sides). Using Times New Roman 12 point font, with abstract text left and right justified. The entire abstract and accompanying information must fit on one side of one page. Each submission should include:

1. Title (all capital letters and centered)
2. Authors (centered)
3. Organizational affiliation of authors, plus telephone and email address of corresponding author (centered)
4. Abstract

### ***Sample format for abstract preparation:***

COMPLEX MICROSNTENY AMONG WHEAT, RICE AND  
BARLEY AT THE *QFHS.NDSU-3BS* REGION

Sixin Liu and James A. Anderson\*

Dept. of Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN 55108, USA

\*Corresponding Author: PH: (612) 625-9763; E-mail: ander319@umn.edu

### **ABSTRACT**

A major wheat QTL, *Qfhs.ndsu-3BS*, for resistance to Fusarium head blight (FHB) has been identified and verified by several research groups...

**-----2005 ITMI Summer Workshop Registration Form-----**

Workshop Date: May 29-31, 2004

Location: Bozeman, MT, USA

*Include this completed form with workshop registration fee payment*

NAME \_\_\_\_\_

ORGANIZATION \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

COUNTRY \_\_\_\_\_

ZIP CODE \_\_\_\_\_

PHONE NUMBER(S): \_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

**Registration fee is \$150.00 U.S.**

**Please make check payable to Montana State University. Sorry, no credit card registration is available. Mail your checks together with this registration sheet to:**

**Bobbi Bear  
109 Ag Biosciences Bldg  
Montana State University  
Bozeman, MT 59717  
USA**